

Title (en)

High volume fuel nozzles for a turbine engine

Title (de)

Brennstoffdüsen mit hohem Durchsatz für Turbinenmotoren

Title (fr)

Injecteurs de carburant à grand volume pour moteur à turbine

Publication

EP 2246629 A3 20140129 (EN)

Application

EP 10161445 A 20100429

Priority

US 43323609 A 20090430

Abstract (en)

[origin: EP2246629A2] A fuel nozzle for a turbine engine is configured to deliver a large volume of a fuel which has a relatively low amount of energy per unit volume. The fuel nozzle includes a fuel swirler plate (120) having fuel delivery apertures (124/126/127/129) which are angled with respect to the flat surfaces of the swirler plate. A nozzle cap (130) covers the end of the fuel nozzle to create a swirl chamber (135) at the outlet end. The nozzle cap may include a plurality of air inlet apertures (136) to allow the air to enter the swirl chamber.

IPC 8 full level

F23R 3/28 (2006.01); **F23D 11/10** (2006.01); **F23D 11/38** (2006.01); **F23R 3/12** (2006.01)

CPC (source: EP US)

F23D 11/103 (2013.01 - EP US); **F23D 11/383** (2013.01 - EP US); **F23R 3/12** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23R 2900/03044** (2013.01 - EP US)

Citation (search report)

- [XAYI] EP 1793165 A2 20070606 - HITACHI LTD [JP]
- [Y] DE 918422 C 19540927 - VERWERTUNGSGESELLSCHAFT DR ING
- [XA] FR 2914397 A1 20081003 - SAINT GOBAIN EMBALLAGE SA [FR], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

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